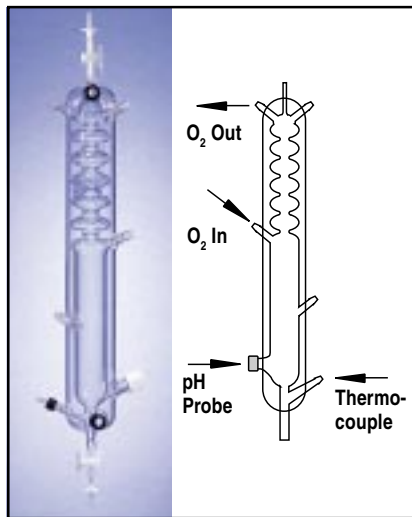


Radnoti Heart Perfusion System Components



Oxygenating Chamber

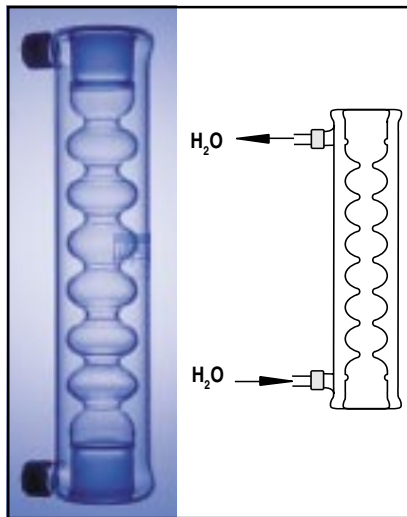
The entire borosilicate glass Oxygenating Chamber is water-jacketed to maintain temperature control and uses quick-disconnect warm water circuit connectors for easy, secure assembly. The upper Chamber is a condenser formed from six linked spheres that provide maximal surface area for rewarming and reoxygenating the recirculated perfusate. Luer entry and exit ports at the top and bottom permit the flow of solution to the heart.

Five additional Luer side ports can be used for the entry and exit of oxygen, media overflow, perfusate return (when in the working heart mode), as well as sampling or adding solutions. The lower end of the Chamber has a thermocouple port that permits monitoring of perfusate temperature, as well as an 8 mm port for insertion of a pH probe to monitor perfusate pH.

Specifications

Overall Length	370 mm (14.6 in)
Water Jacket OD	48 mm (1.9 in)

Catalog No.	Product
CGS 8011.73	Oxygenating Chamber



Buffer Reservoir

The water-jacketed Buffer Reservoir collects the solution that has passed through the heart and rewarms it prior to recirculation. This Reservoir is fitted with quick-disconnect warm water circuit connections and has 24 mm ground glass joints at the top and bottom. The six linked sphere configuration, similar to that in the Oxygenating Chamber, ensures rewarming of perfusate prior to recirculation.

Specifications

Length	200 mm (7.9 in)
Water Jacket OD	41 mm (1.6 in)
Six Linked	12 to 32 mm
Sphere ID	0.5 to 1.25 in

Catalog No.	Product
CGS 8012.73	Buffer Reservoir
CGS 8013.73	Buffer Reservoir, Mouse



Adapter, 24 mm, Female

The Female Adapter has a 24 mm female ground joint and a Luer connector and was designed for use when not using the buffer reservoir.

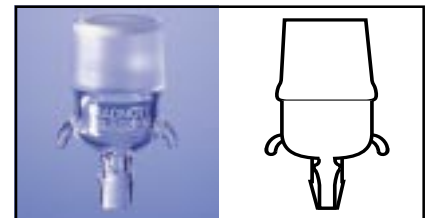
Catalog No.	Product
CGS 8014.73	Adapter, 24 mm, Female



Adapter 24 mm Female/Male

Fits between the Heart Chamber and the Buffer Reservoir. The two Luer side ports permit the addition of new medium or the sampling of effluent, as well as the gassing of the Heart Chamber with nitrogen during hypoxia experiments.

Catalog No.	Product
CGS 8015.73	Adapter, 24 mm, Female/Male



Adapter 24 mm Male

This 24 mm male ground joint to Luer connector is inserted into the lower chamber of the Buffer Reservoir.

Catalog No.	Product
CGS 8016.73	Adapter, 24 mm, Male



25 mm Disposable Filter

During the recirculation of perfusate, the heart releases proteins that cause foaming and the formation of embolites. To remove these proteins and other precipitates that may exist in solution, this Disposable 25 mm Membrane Filter is inserted in the pump output line. The Filter may then be removed at the end of the experiment and replaced before the next experiment is started. Supplied as a package of 12.

Catalog No.	Product
CGS 8017.73	Disposable Filter, 25 mm